

**Amendments to the Specification:**

At the end of the application, please replace the current Sequence Listing with the attached paper and computer-readable Sequence Listing.

Please add the Abstract as attached hereto.

Please add the following new heading before the paragraph beginning on line 4 of page 1:

**BACKGROUND**

Please add the following new heading before the paragraph beginning on line 22 of page 2:

**SUMMARY**

Please replace the paragraph beginning on page 3, line 14, with the following rewritten paragraph:

- a nucleotide fragment of isolated DNA comprising or consisting of a DNA or RNA nucleotide sequence of at least 12 contiguous nucleotides, preferably of at least 15 or of at least 18 contiguous nucleotides, and advantageously of at least 20, 21, 22, 23, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51 or 54 contiguous nucleotides, of the DNA nucleotide sequence SEQ ID No. NO: 4 or of the DNA sequence complementary to SEQ ID No. NO: 4; or of a nucleotide sequence which exhibits, over at least 12 contiguous nucleotides, preferably over at least 15 or at least 18 contiguous nucleotides, and advantageously over at least 20, 21, 22, 23, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51 or 54 contiguous nucleotides, at least 90%, preferably at least 92% or 95% or at least 98% or 99% homology or identity with respect to the sequence

represented in SEQ ID ~~NO:~~NO: 4 or with respect to the DNA sequence complementary to SEQ ID ~~NO:~~NO: 4; with the exclusion of the fragments that consist of one of the following nucleotide sequences: TAGTCGAGACTCAACCATCGC (SEQ ID NO: 38), CCCGCCCCGCTGATGAAAAG (SEQ ID NO: 31) and of nucleotide sequences complementary to said sequences; or on the condition that, over 20 contiguous nucleotides or 21 contiguous nucleotides, said DNA nucleotide fragment does not exhibit 100% homology or identity with a nucleotide fragment of the sequence referenced SEQ ID ~~NO:~~NO: 1 or of the sequence complementary to SEQ ID ~~NO:~~NO: 1. Said fragment is in particular chosen from the fragments in which said contiguous nucleotides belong to one of the following segments: a segment whose sequence begins at nucleotide 2 and ends at nucleotide 286 of SEQ ID ~~NO:~~NO: 4, a segment whose sequence begins at nucleotide 4 and ends at nucleotide 144 of SEQ ID ~~NO:~~NO: 4, a segment whose sequence begins at nucleotide 180 and ends at nucleotide 1004 of SEQ ID ~~NO:~~NO: 4, a segment whose sequence begins at nucleotide 614 and ends at nucleotide 820 of SEQ ID ~~NO:~~NO: 4, a segment whose sequence begins at nucleotide 1228 and ends at nucleotide 1314 of SEQ ID ~~NO:~~NO: 4, or the complementary fragments; a segment whose sequence begins at nucleotide 1283 and ends at nucleotide 1197 of the sequence complementary to SEQ ID ~~NO:~~NO: 4, a segment whose sequence begins at nucleotide 1264 and ends at nucleotide 1067 of the sequence complementary to SEQ ID ~~NO:~~NO: 4, a segment whose sequence begins at nucleotide 1209 and ends at nucleotide 1099 of the sequence complementary to SEQ ID ~~NO:~~NO: 4, a segment whose sequence begins at nucleotide 819 and ends at nucleotide 736 of the sequence complementary to SEQ ID ~~NO:~~NO: 4, a segment whose sequence begins at nucleotide 800 and ends at nucleotide 6 of the sequence complementary to SEQ ID ~~NO:~~NO: 4, a segment whose sequence begins at nucleotide 784 and ends at nucleotide 629 of the sequence complementary to SEQ ID ~~NO:~~NO: 4, a segment whose sequence begins at nucleotide 610 and ends at nucleotide 410 of the

sequence complementary to SEQ ID ~~No.~~NO: 4, a segment whose sequence begins at nucleotide 391 and ends at nucleotide 221 of the sequence complementary to SEQ ID ~~No.~~NO: 4, or the complementary fragments; and preferably a fragment comprising or consisting of any one of the sequences SEQ ID ~~No.~~NOS: 5 to 17 of any one of the DNA sequences complementary to SEQ ID ~~No.~~NOS: 5 to 17 (the segment whose sequence begins at nucleotide 180 and ends at nucleotide 1004 of SEQ ID ~~No.~~NO: 4 encodes a transposase/integrase protein);

Please replace the paragraph beginning on page 6, line 24, with the following rewritten paragraph:

- a polypeptide comprising a polypeptide sequence encoded by a sequence or by a fragment as defined above or by functional equivalents thereof or by a nucleotide sequence which exhibits at least 90% homology or identity, preferably at least 92% or 95% homology or identity, and advantageously at least 98% or 99% homology or identity, with respect to the sequence represented in SEQ ID ~~No.~~NO: 4 or with respect to the sequence complementary to SEQ ID ~~No.~~NO: 4, on the condition that the sequences TAGTCGAGACTCAACCATCGC (SEQ ID NO: 38), CCCGCCCGCTGATGAAAAG (SEQ ID NO: 31), and the nucleotide sequences complementary to said sequences are excluded; or on the condition that, over 20 contiguous nucleotides or 21 contiguous nucleotides, the DNA nucleotide fragment does not exhibit 100% homology or identity with a nucleotide fragment of the sequence referenced SEQ ID ~~No.~~NO: 1 or of the sequence complementary to SEQ ID ~~No.~~NO: 1;

Please replace the heading on page 23, line 17, with the following rewritten heading:

**Figure:**BRIEF DESCRIPTION OF THE FIGURE

Please replace the paragraph beginning on page 23, line 19, with the following rewritten paragraph:

The figure represents the partial sequencing of the band of approximately 1.3 Kb (SEQ ID NO: 2 and SEQ ID NO: 3). In the figure, the position of the unsequenced fragment of approximately 200 base pairs is represented by the symbols (-). In the figure, the nucleotide fragments indicated in bold correspond to nucleotide fragments that exhibit 100% sequence homology or identity with SEQ ID ~~No.~~NO: 1. Their respective positions relative to SEQ ID ~~No.~~NO: 1 are as follows: 253-233, 254-273, 273-254.

Please replace the heading on page 23, line 29, with the following rewritten heading:

~~Examples~~ DETAILED DESCRIPTION OF EMBODIMENTS

Please replace the paragraph beginning on page 24, line 9, with the following rewritten paragraph:

Antisense primer Comp S6M13:

5'-GCACTGCCGAGTTACATGGC-3' (SEQ ID ~~No.~~NO: 39)